

Public Health Reports

Treasury Department, United States Marine-Hospital Service. Published in accordance with act of Congress approved February 15, 1893.

VOL. XIII.

WASHINGTON, D. C., JULY 8, 1898.

No. 27.

UNITED STATES.

[Reports to the Supervising Surgeon-General United States Marine-Hospital Service.]

Yellow fever in Mississippi.

(Continuation of report from June 30, contained in the preceding issue.)

July 1: No new cases; status unchanged. No illness in refugee camp.

July 2: Situation unchanged. Disinfection continues.

July 3: No new cases.

July 4: No new cases. Four convalescents, 1 under treatment. Purchased 1 house and burned it, as it was too open to thoroughly disinfect it. All convalescents moved to new tents and the old tents disinfected by steam. The McHenry foci now reduced to 1 case in 1 tent. No new cases. It is determined to narrow the quarantine limits the end of the week. The coast from New Orleans to Mobile is free from infection.

July 5: No new cases; only 1 case under treatment. No illness of any kind. Disinfection of houses progressing rapidly.

July 6: No new cases; 1 under treatment. Steam disinfection continues.

Smallpox in Alabama and Mississippi.

MOBILE, ALA., July 1, 1898.

SIR: I have the honor to report that two colored females suffering with smallpox were sent from this city to the pesthouse to-day.

Two cases are reported for the past week in Wayne County, Miss., 5 miles from Shubuta. One case is reported at State Line, Miss. Cases are reported at Chicora, Miss.

I am, very respectfully, your obedient servant,

R. D. MURRAY,
Surgeon, U. S. M. H. S.

Report of cases of smallpox in New York State.

ROCHESTER, N. Y., June 29, 1898.

SIR: We have in the city of Rochester 3 cases of smallpox. They came here from Dansville, N. Y. Other cases of smallpox in this State have been reported in Dansville, Ithaca, Fredonia, Dunkirk, Geneva, and elsewhere. The cases in Rochester were reported to the secretary of the State board of health.

Yours, respectfully,

GEORGE W. GOLER, M. D.,
Health Officer.*Additional report on variola in Fredonia, N. Y.*

FREDONIA, N. Y., June 27, 1898.

SIR: I have to report that about April 28 last a traveling troupe was here which was afterwards said to have been infected with smallpox. About May 9, 2 cases developed of what was diagnosed as chicken pox and about two weeks later 2 more cases in the same families came down with the same disease; later 3 new cases appeared, I think, in the same families.

About June 21 it appeared in a new place and was the first case reported to this board as suspicious. We immediately telegraphed the State board of health to send us an expert to determine the character of the disease. This they failed to do. Immediately we telegraphed to Dr. Wende of the board of health in Buffalo to come. He came the same day and pronounced it smallpox.

We had previously quarantined all suspects and have placed a guard at each house. There have been no new cases since June 23 and no new places since June 21. The disease is confined to 5 places and since May 9 we have had 13 cases. One has been discharged cured and 5 more are ready for disinfection. We are requiring vaccination and have taken all precautions against the spread of the disease.

Very truly,

HORACE P. PERRIN,
Clerk.*Arrival of wounded soldiers at Key West.*

KEY WEST, FLA., July 6, 1898.

Three hundred wounded arrived yesterday from Siboney and were taken to the general hospital. No infectious diseases reported among them.

GUITERAS,
Passed Assistant Surgeon, U. S. M. H. S.

Smallpox in the United States as reported to the Supervising Surgeon-General United States Marine-Hospital Service, January 1 to July 7, 1898.

Places.	Date.	Cases.	Deaths.	Remarks.
Alabama:				
Bessemer.....	Jan. 6-Feb. 19....	143		
Birmingham.....	Jan. 6-Feb. 19....	47		
	May 13.....	15		
In Jefferson county, outside of the city.....	Feb. 6-Feb. 19....	26		
Carneys Bluff.....	Feb. 17.....			Smallpox reported.
Corona.....	Mar. 4.....	1		
Dolomite.....	Dec. 1-Jan. 17....	21		
Gosport.....	Feb. 17.....			Do.
Glendon.....	Feb. 17.....			Do.
Haynesville.....	Mar. 11.....	400		
Horse Creek Mine.....	Mar. 4.....	3		
Hurricane Bayou.....	Mar. 31-June 12....	30		
Jackson.....	Feb. 17.....	10		
Letohatchie.....	May 13.....	50		
Mobile.....	Feb. 5-June 15....	82	1	
	July 1.....	2		
Montevallo.....	Mar. 3.....	1		
Montgomery, Ala.....	June 29.....	2		
Newton.....	Jan. 15-Feb. 2....	7		
Nichola.....	Feb. 17.....			Do.
Oxmar.....	Jan. 19.....			Do.
Patton.....	Feb. 1-Mar. 4....	9		
Pinckard.....	Feb. 2.....	50		
Port Deposit.....	May 13.....	1		
Rock Springs.....	Mar. 11.....	15		
Salitpa.....	Feb. 17.....			Do.
Selma.....	Jan. 13-Feb. 14....	3		
Shelby.....	Jan. 28-Apr. 22....	8		
Talladega.....	Jan. 9-Feb. 15....	45		
Walker Springs.....	Feb. 17.....			Do.
Wayne County.....	June 23-July 1....	2		
Whistler.....	June 4-June 15....	1		
Arkansas:				
Beebe.....	June 30.....	1		
Fair Oaks.....	Mar. 1.....	5		
Hot Springs.....	June 30.....	2		
Little Rock and vicinity.....	Mar. 31-May 20....	110	1	
Newport.....	Apr. 28.....	1		
Sweet Home.....	May 20.....	11	1	
Colorado:				
Boulder.....	June 24.....	4		
District of Columbia:				
Washington.....	Feb. 7.....	1		Naval Hospital.
	Apr. 2-May 3....	9		
Florida:				
Bartow.....	June 25.....	1		
Bluff Springs.....	June 18.....	1		
Jacksonville.....	Mar. 20-Mar. 26....	1		
Pensacola.....	Apr. 24-May 11....	2		
Washington County.....	Jan. 24.....	12		
Georgia:				
Atlanta.....	Jan. 17-Feb. 16....	178	2	Most cases from county.
Cartersville.....	Jan. 15-Mar. 1....	9	1	
Griffin.....	Feb. 12.....	2		
Macon.....	Jan. 15-June 1....	100	3	
Stilesboro.....	Jan. 15.....			Smallpox reported.
Illinois:				
Chicago.....	May 4.....	1		
Indiana:				
Evansville.....	Feb. 26.....	1		
Kentucky:				
Butler.....	Feb. 8-Feb. 24....	1		
Louisville.....	Apr. 16.....	1		
Middlesborough.....	Feb. 3-Apr. 7....	183	2	
Louisiana:				
New Orleans.....	Mar. 13-May 21....	5		
Massachusetts:				
Greenfield.....	Feb. 5-Feb. 22....	1		
Westfield.....	Feb. 20-Mar. 2....	1		
Michigan:				
Ionla.....	Mar. 20-Apr. 23....			Do
Royal Oak.....	Feb. 12-Mar. 12....	1		
Mississippi:				
Basin.....	May 16.....	7		
Chicora.....	June 23-July 1....			Cases reported.
Denny.....	May 16-May 31....	19		
Hattiesburg.....	June 4-June 15....	4		
Hendersons Point.....	Feb. 8.....	3		
Laurel.....	May 28-June 15....	8		
Moss Point.....	Feb. 15.....	1		
Ocean Springs.....	Feb. 20.....	3		
Prairie.....	June 4-June 15....			Several cases.
State Line.....	June 23-July 1....	1		

Smallpox in the United States, etc.—Continued.

Places.	Date.	Cases.	Deaths.	Remarks.
Mississippi—Continued.				
Shubuta, Clark County.....	May 28-June 15...	75		A few cases.
West Point.....	June 4-June 15....			
New Jersey:				
Westfield.....	Mar. 4.....	1		
New Mexico:				
Albuquerque and vicinity....	Mar. 5-Apr. 1....	14		
Lincoln and vicinity.....	June 11.....	30		
New York:				
Buffalo.....	May 21-June 18...	1		
Deposit.....	Nov. 1-Nov. 30...	1		
Fredonia.....	June 23.....	16		
New York City.....	May 14-May 21...	1		
Rochester.....	June 29.....	3		
North Carolina:				
Alamance County.....	Feb. 18-Feb. 25...	1		
Asheville.....	Apr. 14.....	1		
Buncombe County.....	Apr. 16.....	1		
	June 8.....	1		
Charlotte.....	Jan. 25-Feb. 12....	4		
Clay County.....	Feb. 15-Feb. 24...	3		
Iredell County.....	May 19-June 23...	27		
Mooresville.....	June 16.....	1		
Reidville.....	June 30.....	1		
Rowan County.....	June 2-June 23...	7		
Statesville.....	June 11.....	11		
Wilmington.....	Jan. 12.....	1		
Wilson County.....	May 28.....	1		
Ohio:				
Cincinnati.....	May 5.....	1		
Columbus.....	Apr. 16-Apr. 22...	1		
Delphos.....	May 1-June 8....	3		
Fairfield County.....	Apr. 8-May 11....	12	1	
Pennsylvania:				
Philadelphia.....	Apr. 13.....	2		
Johnsonburg.....	Apr. 13-June 23...	1		
Tioga.....	Apr. 13-June 23...	1		
South Carolina:				
Arkwright.....	Mar. 25.....	9		
Beaufort.....	Jan. 17.....			Smallpox reported.
Charleston.....	Apr. 22.....	1		
Columbia.....	Apr. 6-May 2....	88		
Dyson.....	Mar. 25.....	3		
Greenville.....	Jan. 17.....			Do.
Orangeburg.....	Jan. 17.....			Do.
Pelham.....	Mar. 25.....	20		
Ridge Springs.....	Mar. 25.....	1		
Rock Hill.....	Jan. 17.....			Do.
Spartanburg.....	Jan. 17.....			Do.
Sumter.....	May 2.....	12		
Swansea.....	Jan. 15.....			Do.
Tennessee:				
Bristol.....	Mar. 1-Mar. 31...	1		
Chattanooga.....	Jan. 1-Apr. 30...	21		
Cleveland.....	Apr. 1-Apr. 30...	6		
Elk Valley.....	Mar. 1-Mar. 31...	1		
Huntington (near).....	Jan. 1-Jan. 29...	1		
Jellico.....	Feb. 1-Mar. 31...	9		
Johnson City.....	Feb. 1-Mar. 31...	13		
Knoxville.....	Jan. 1-Apr. 30...	43		
Lenoir City.....	Jan. 1-Feb. 28...	5		
Memphis.....	Jan. 22-June 27...	5		
Mingo mines.....	Jan. 1-Jan. 29...	6		
Mingo.....	Feb. 1-Mar. 31...	3		
Morristown.....	Feb. 1-Mar. 31...	6		
Newcomb.....	Feb. 1-Feb. 28...	3		
Rockford.....	Mar. 1-Mar. 31...	1		
Rutledge.....	Feb. 1-Apr. 30...	14		
Shields Ferry.....	Mar. 1-Mar. 31...	4		
Sprawles.....	Mar. 1-Mar. 31...	1		
Texas:				
Brownsville.....	Feb. 26.....	1		
Columbus.....	Feb. 2-Apr. 2....	30	7	
El Paso.....	June 11.....	3		
Virginia:				
Colburn.....	Feb. 1.....			Do.
Norfolk.....	Mar. 1-Mar. 10...	2		
Norton.....	Feb. 1.....			Do.
West Virginia:				
Benwood.....	June 4.....	1		
Bluefield.....	Feb. 25.....	5		
Fayette County.....	May 6.....	8		
Mercer County.....	May 6.....	6		
McDowell County.....	May 6.....	12		
Wisconsin:				
Wausau.....	May 19.....	1		
Oshkosh.....	Apr. 28.....	1		

*Report of immigration at New York for the week ended July 2, 1898.*OFFICE OF U. S. COMMISSIONER OF IMMIGRATION,
*Port of New York, July 5, 1898.**Number of alien immigrants who arrived at this port during the week ended July 2, 1898;
also names of vessels and ports from which they came.*

Date.	Vessel.	Where from.	No. of immigrants.
June 26	Steamship La Bourgogne	Havre	214
June 27	Steamship Alesia	Marseilles and Naples	120
June 28	Steamship Amsterdam	Rotterdam	86
June 29	Steamship Anchoria	Glasgow	112
Do....	Steamship Westernland	Antwerp	214
Do....	Steamship Koenigin Luise	Bremen	221
June 30	Steamship State of Nebraska	Glasgow	35
Do....	Steamship Servia	Liverpool and Queenstown	130
Do....	Steamship Dona Maria	Lisbon and The Azores	24
July 1	Steamship Bolivia	Naples and Gibraltar	251
Do....	Steamship Kaiser Wilhelm der Grosse ..	Bremen	281
Do....	Steamship Britannic	Liverpool and Queenstown	187
July 2	Steamship Norge	Copenhagen, etc.	109
Do....	Steamship Etruria	Liverpool and Queenstown	127
Total			2,111

THOMAS FITCHIE,
*Commissioner.**Report of immigration at Philadelphia for the week ended July 2, 1898.*OFFICE OF U. S. COMMISSIONER OF IMMIGRATION,
*Port of Philadelphia, July 5, 1898.**Number of alien immigrants who arrived at this port during the week ended July 2, 1898;
also names of vessels and ports from which they came.*

Date.	Vessel.	Where from.	No. of immigrants.
June 26	Steamship Roumanian	Glasgow	3
Do....	Steamship Tremont	London	1
June 28	Steamship Scotia	Hamburg	64
June 30	Steamship Kong Frode	Jamaica	1
July 1	Steamship Minnesota	London	1
Do....	Steamship Nederland	Antwerp	163
July 2	Steamship Elizabeth Rickmers	Bremen	60
Total			293

JNO. J. S. RODGERS,
Commissioner.

QUARANTINE REPORTS.

National quarantine and inspection stations.

[Vessels named only when detained or given treatment at quarantine.]

Name of station.	Week ended.	Name of vessel.	Date of arrival.	Port of departure.	Destination.	Treatment of vessel, passengers, and cargo.	Date of departure.	Remarks.	Vessels inspected and passed.
Cape Charles, Va.....	July 2	Swd. bk. Cosmo-polita. (a)	June 2	Para	Carabelle.....	Disinfected and held.....	June 19	No transactions.....	4
Eureka, Cal.....	June 25	Nor. bk. Junto	June 14	Pernambuco	Apalachicola	do.....	June 25	do.....	2
Grays Harbor, Wash.....	June 23	Br. bk. J. H. McLaren	June 16	Rio	Pacagoula.....	do.....			5
Gulf Quarantine, Ship Island, Miss.	June 23	Am. sc. Magnolia	June 17	Progreso	Handsboro.....	do.....			
		Br. bk. Copsefield	June 21	Para	Apalachicola	Held for disinfection.....			
		Br. ss. Ladgate	do	Santos	Ship Island.....	Disinfected and held.....			
		Ital. bk. Calterina	June 22	Montevideo	do.....	Held for disinfection.....			
		Rus. bk. Alumina	June 25	Lorenzo Marques via Barbados	Pacagoula.....	do.....			
		Nor. s. Constance	do	Santos	Ship Island.....	do.....		3 deaths from yellow fever at Santos; 1 sailor left in hospital; 1 death at sea; total number of cases not known; probably majority of crew.	
Newbern, N. C.....	July 2							No transactions.....	8
Port Townsend, Wash.....	June 25								20
Reedy Island, Del.....	July 2								4
San Diego, Cal.....	June 25	Am. ss. Peru	June 24	Hongkong	San Francisco	163 Chinese and 52 Japanese steerage passengers bathed and baggage and clothing disinfected.	June 24	1 case of plague put off at Kobe, vessel and all on board disinfected there and held nine days.	24

San Francisco, Cal.....	June 25	Br. ss. Coptic.....	June 24	Hongkong.....	San Francisco	June 25	
South Atlantic Quarantine, Blackbeard Island, Ga.	..do.....				255 Chinese and 22 Japanese steerage passengers bathed and baggage and clothing disinfected.		
Tortugas Quarantine, Key West, Fla.	.....do.....						
Washington, N. C.....	July 2						No transactions.....
							.....do.....

a Previously reported.

QUARANTINE REPORTS—Continued.

State and municipal quarantine stations.

[Vessels named only when detained or given treatment at quarantine.]

[illegible]

July 8, 1898

Pass Cavallo, Fla.....	June 4						No transactions.....	3
	June 11							2
	June 18							1
	June 25							1
	June 30							
	June 25						No transactions.....	
Port of Los Angeles, Cal.	June 25						No report.....	
Port Royal, S. C.....	June 25						No transactions.....	
Providence, R. I.....	July 2						No report.....	
Round Island, Miss.....	June 25						No transactions.....	
St. Helena Entrance, S. C.							do.....	
Savannah, Ga.....							No report.....	1
Tampa Bay, Fla.....							do.....	

a Previously reported.

Reports of States and yearly and monthly reports of cities.

MICHIGAN.—Reports to the State board of health, Lansing, for the week ended June 25, 1898, from 77 observers, indicate that intermittent fever and inflammation of bowels increased, and diarrhea decreased in area of prevalence. Phthisis pulmonalis was reported prevalent at 172, measles at 50, scarlet fever at 22, diphtheria at 21, enteric fever at 18, and whooping cough at 18 places.

NEW YORK.—Reports to the State board of health, Albany, from 146 cities, towns, and villages, show a total of 9,748 deaths, including diphtheria, 223; enteric fever, 86; measles, 109; scarlet fever, 113; whooping cough, 112, and 1,127 from phthisis pulmonalis.

The Monthly Bulletin says:

There has been a small decrease in the mortality from the two preceding months, from a daily average of 333 deaths to 315; in May, 1897, the daily average was 300. The death rate was 17.15 against 18.75 in April and 17.00 in May, 1897. The decrease in the number of deaths from April to May is less than usual, there being uniformly in this State a diminution amounting to about 800, this year there being less than 300. The mortality of early life is about the same as customary for both May and April, 27.5 per cent of the deaths occurring under the age of 5 years. There were 900 deaths from zymotic diseases, a number below the average, the two months of May and April being usually nearly identical in these. Scarlet fever is the only one of this class which shows an increase; there were 113 deaths reported from it, only 10 of which occurred outside the maritime district. Diphtheria has further decreased, and the 221 deaths from it are but half the average number for May for the past ten years. Whooping cough is more prevalent than it was a year ago and is generally distributed throughout the State. Other zymotic diseases show no deviation from the average mortality. The most notable occurrence during the month was the importation into this State the last of April of smallpox by a traveling theatrical troupe in which was a mild ambulant case of varioloid contracted in West Virginia, escaping detection until it had visited 20 places; the troupe, which traveled in its own cars and had its own exhibition tent, was arrested May 21 at Geneva and placed in quarantine; cases from its membership or contracted by others have developed at Ithaca, Geneva, Buffalo, Dansville, Locke, Union Springs, West Sparta, Rochester, and recently also at Fredonia and Moravia. All these cases are in quarantine and the further spread is not anticipated; none of them have proved fatal. The mortality from acute respiratory diseases is 300 less than in April and 200 more than in last May, and there is a small increase in deaths from other local diseases over the number of a year ago. Grippe has not caused more than 200 deaths; it has been credited this year with 2,300 deaths, and the current epidemic, commencing in January, is practically ended. The weather during the month was characterized by the average temperature for the State, a moderate excess of rainfall, an unusually small number of clear days, with high relative humidity of the atmosphere, and moderate varying winds.

MORTALITY TABLE, CITIES OF THE UNITED STATES—Continued.

Cities.	Week ended.	Population, U. S. Census of 1890.	Total deaths from all causes.	Deaths from—									
				Phthisis pulmonalis.	Yellow fever.	Smallpox.	Varicoid.	Cholera.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.
Omaha, Nebr.....	June 18....	140,452	19										
Do.....	June 25....	140,452	21										
Oneonta, N. Y.....	July 2.....	6,272	2										
Philadelphia, Pa.....	June 25....	1,046,964	387	34						7	1	13	3
Do.....	July 2.....	1,046,964	555	47						10		10	3
Pittsburg, Pa.....	June 25....	238,617	124	8						4			2
Pittsfield, Mass.....	do.....	17,281	2										
Plainfield, N. J.....	July 2.....	11,267	5									1	
Portland, Me.....	June 25....	36,425	8	2						1			
Providence, R. I.....	July 2.....	132,146	52	2									1
Pueblo, Colo.....	June 25....	24,558	11									2	
St. Louis, Mo.....	June 18....	451,770	125	16						1	1		1
Do.....	June 25....	451,770	206	20						1	1	1	1
Salt Lake City, Utah.....	do.....	44,843	5										1
Santa Barbara, Cal.....	do.....	5,864	2										
Sault Ste. Marie, Mich.....	do.....	5,760	5							1		2	
Spokane, Wash.....	do.....	19,922	3										
Taunton, Mass.....	do.....	25,448	5									1	
Waltham, Mass.....	do.....	18,707	8										
Warren, Ohio.....	do.....	5,973	1										
Washington, D. C.....	do.....	230,392	138	16						4		2	
Wilmington, Del.....	July 2.....	61,431	31	2									1
Winona, Minn.....	June 25....	18,208	4										
Worcester, Mass.....	June 24....	84,655	26	4									
Yonkers, N. Y.....	July 1.....	32,033	16	3								1	
Youngstown, Ohio.....	June 25....	33,220	12							3			

Table of temperature and rainfall, week ended July 4, 1898.

[Received from Department of Agriculture, Weather Bureau.]

Locality.	Temperature in degrees Fahrenheit.			Rainfall in inches and hundredths.		
	Normal.	Excess.	Deficiency.	Normal.	Excess.	Deficiency.
Atlantic Coast:						
Eastport, Me.....	58	2	.....	.84	.....	.84
Portland, Me.....	68	0	.....	.77	.....	.77
Northfield, Vt.....	66	4	.....	.73	.....	.73
Boston, Mass.....	71	3	.....	.77	.....	.67
Vineyard Haven, Mass.....	69	3	.....	.56	.....	.46
Nantucket, Mass.....	64	4	.....	.59	.....	.19
Woods Hole, Mass.....	66	2	.....	.56	.04	.....
Block Island, R. I.....	65	3	.....	.67	.....	.67
New Haven, Conn.....	71	5	.....	.89	.....	.89
Albany, N. Y.....	72	4	.....	.87	.....	.89
New York, N. Y.....	73	5	.....	.84	.....	.77
Harrisburg, Pa.....	72	8	.....	.94	.....	.64
Philadelphia, Pa.....	75	7	.....	.81	.16	.....
New Brunswick, N. J.....	71	9	.....	1.04	.....	.01
Atlantic City, N. J.....	70	6	.....	.77	.....	1.04
Baltimore, Md.....	76	8	.....	1.02	.93	.....
Washington, D. C.....	76	7	.....	1.06	.....	1.02
Lynchburg, Va.....	76	6	.....	.84	.....	.20
Cape Henry, Va.....	77	5	.....	1.03	.17	.64
Norfolk, Va.....	77	5	.....	1.11	.09	.....
Charlotte, N. C.....	77	5	.....	1.18	.....	1.08
Raleigh, N. C.....	76	8	.....	1.59	.....	1.59
Kittyhawk, N. C.....	77	5	.....	1.19	.....	1.19
Hatteras, N. C.....	76	4	.....	1.27	.....	.37
Wilmington, N. C.....	79	3	.....	1.44	.....	.94
Columbia, S. C.....	80	4	.....	1.07	.....	.97
Charleston, S. C.....	81	3	.....	1.51	.....	1.51
Augusta, Ga.....	80	4	.....	1.15	.....	1.05
Savannah, Ga.....	81	3	.....	1.41	.....	1.21
Jacksonville, Fla.....	82	2	.....	1.41	.....	1.41
Jupiter, Fla.....	80	2	.....	1.27	.....	.87
Key West, Fla.....	83	0	.....	.91	.....	.61
Gulf States:						
Atlanta, Ga.....	77	5	.....	1.01	.....	1.01
Tampa, Fla.....	81	1	.....	2.31	.....	1.91
Pensacola, Fla.....	80	2	.....	1.57	.....	.77
Mobile, Ala.....	81	0	.....	1.43	.....	.73
Montgomery, Ala.....	81	3	.....	1.05	.....	.85
Vicksburg, Miss.....	81	.....	1	.98	3.02	.....
New Orleans, La.....	82	0	.....	1.50	.30	.....
Shreveport, La.....	82	.....	.....	.84	.....	.....
Fort Smith, Ark.....	79	1	.....	1.02	.....	.82
Little Rock, Ark.....	79	1	.....	.91	.....	.91
Palestine, Tex.....	81	.....	2	.73	.77	.....
Galveston, Tex.....	84	.....	4	.80	1.00	.....
San Antonio, Tex.....	83	.....	3	.52	.28	.....
Corpus Christi, Tex.....	82	.....	2	.37	.....	.17
Ohio Valley and Tennessee:						
Memphis, Tenn.....	80	0	.....	.93	.....	.83
Nashville, Tenn.....	79	1	.....	1.05	.....	.15
Chattanooga, Tenn.....	77	3	.....	1.01	.....	.91
Knoxville, Tenn.....	75	5	.....	.98	.....	.88
Louisville, Ky.....	78	2	.....	.94	.....	.14
Indianapolis, Ind.....	75	3	.....	1.01	.19	.....
Cincinnati, Ohio.....	77	3	.....	.81	.....	.81
Columbus, Ohio.....	75	7	.....	.77	.....	.77
Parkersburg, W. Va.....	72	8	.....	.98	2.02	.....
Pittsburg, Pa.....	74	6	.....	.96	.....	.76
Lake Region:						
Oswego, N. Y.....	68	4	.....	.75	.05	.....
Rochester, N. Y.....	70	6	.....	.70	.....	.40
Buffalo, N. Y.....	69	3	.....	.77	.....	.07
Erie, Pa.....	70	4	.....	.73	.....	.63
Cleveland, Ohio.....	70	6	.....	.84	.....	.24
Sandusky, Ohio.....	71	7	.....	.77	.....	.07
Toledo, Ohio.....	72	4	.....	.70	.....	.70
Detroit, Mich.....	71	5	.....	.80	.....	.50
Lansing, Mich.....	73	.....	.....	.87	.....	.67
Port Huron, Mich.....	67	5	.....	.66	.....	.46
Alpena, Mich.....	64	6	.....	.73	.....	.03
Sault Ste. Marie, Mich.....	61	1	.....	.73	.07	.....
Marquette, Mich.....	63	.....	1	.73	.17	.....
Green Bay, Wis.....	68	2	.....	.70	2.00	.....

a The figures in these columns represent the average daily departure.

Table of temperature and rainfall, week ended July 4, 1898—Continued.

Locality.	Temperature in degrees Fahrenheit.			Rainfall in inches and hundredths.		
	Normal.	Excess.	Deficiency.	Normal.	Excess.	Deficiency.
Lake Region—Continued.						
Grand Haven, Mich.	67	3		.73		.43
Milwaukee, Wis.	67	7		.84		.84
Chicago, Ill.	70	6		.84		.84
Duluth, Minn.	63		1	.94	.16	
Upper Mississippi Valley:						
St. Paul, Minn.	70		2	.87	1.03	
La Crosse, Wis.	72		2	.98	.02	
Dubuque, Iowa.	73	1		1.15		.55
Davenport, Iowa.	74	2		.87		.87
Des Moines, Iowa.	73	3		.94		.34
Keokuk, Iowa.	75	3		1.05		1.05
Hannibal, Mo.	75	3		.91		.91
Springfield, Ill.	74	4		.80		.80
Cairo, Ill.	78	2		.94		.64
St. Louis, Mo.	77	5		.94		.94
Missouri Valley:						
Columbia, Mo.	76	2		1.09		1.09
Springfield, Mo.	75	1		1.02		.62
Kansas City, Mo.	76	2		1.08		1.08
Topeka, Kans.	75	3		1.20		.40
Wichita, Kans.	76			.99		
Concordia, Kans.	74	4		.79	.31	
Lincoln, Nebr.	75			.91		.71
Omaha, Nebr.	74	2		1.29		1.29
Sioux City, Iowa.	71		1	.77		.37
Yankton, S. Dak.	72		0	.94		.24
Valentine, Nebr.	71		1	.73		.73
Huron, S. Dak.	70		2	.74	.86	
Pierre, S. Dak.	72		4	.66		.26
Moorhead, Minn.	68		6	.99	1.11	
Bismarck, N. Dak.	69		7	.66		.16
Williston, N. Dak.	68		8	.72	.18	
Rocky Mountain Region:						
Havre, Mont.	68		6	.66		.56
Helena, Mont.	67		12	.45	1.95	
Miles City, Mont.	71		7	.44		.04
Rapid City, S. Dak.	68		2	.58		.48
Spokane, Wash.	67		3	.24	.66	
Walla Walla, Wash.	71		3	.15	.15	
Baker City, Oreg.	66		8	.26		.06
Winnemucca, Nev.	69		5	.10		.10
Idaho Falls, Idaho.	66		6	.17		.17
Salt Lake City, Utah.	74		6	.14		.14
Lander, Wyo.	66		4	.21	.09	
Cheyenne, Wyo.	66		4	.35		.35
North Platte, Nebr.	72		0	.73		.23
Denver, Colo.	71		1	.35		.05
Pueblo, Colo.	72	2		.39		.29
Dodge City, Kans.	76		0	.74		.14
Oklahoma, Okla.	78		0	.68		.58
Amarillo, Tex.	75		3	.65	1.05	
Abilene, Tex.	81		3	.57	.03	
Santa Fe, N. Mex.	69	1		.33	.37	
El Paso, Tex.	83		5	.26	.14	
Phoenix, Ariz.	88	4		.07		.07
Pacific Coast:						
Seattle, Wash.	62		0	.28		.28
Tacoma, Wash.	60		0	.28		.28
Fort Canby, Wash.	57	1		.45		.45
Portland, Oreg.	64		2	.26		.26
Roseburg, Oreg.	64		2	.20		.20
Eureka, Cal.	55		3	.10		.10
Redbluff, Cal.	81	3		.06		.06
Carson City, Nev.	65		1	.07		.07
Sacramento, Cal.	73	3		.00		.00
San Francisco, Cal.	59	1		.02		.02
Fresno, Cal.	82	2		.00		.00
San Luis Obispo, Cal.	64		2	.00		.00
Los Angeles, Cal.	68		0	.02		.02
San Diego, Cal.	66		2	.00		.00
Yuma, Ariz.	88	2		.00		.00

a The figures in these columns represent the average daily departure.

FOREIGN.

[Reports received from United States consuls through the Department of State and from other sources.]

Cholera, yellow fever, plague, and smallpox as reported to the Supervising Surgeon-General United States Marine-Hospital Service, January 1 to July 7, 1898.

CHOLERA.

Places.	Date.	Cases.	Deaths.	Remarks.
China:				
Hongkong	Apr. 24-Apr. 30...	5	3	
India:				
Bombay	Nov. 24-Nov. 30...		4	
"	Dec. 1-Mar. 1...		55	
"	Mar. 2-Mar. 29...		11	
"	Mar. 30-May 24...		16	
Calcutta.....	Nov. 14-Dec. 4...		42	
"	Dec. 5-Jan. 1...		31	
"	Jan. 2-Jan. 29...		28	
"	Jan. 30-Feb. 26...		82	
"	Feb. 27-Mar. 26...		95	
"	Mar. 27-May 21...		235	
Madras.....	Nov. 20-Dec. 10...		8	
"	Dec. 4-Dec. 31...		11	
"	Jan. 1-Jan. 28...		45	
"	Jan. 29-May 6...		41	
Singapore.....	Nov. 1-Nov. 30...		1	
"	Dec. 1-Dec. 31...		1	
"	Mar. 1-Mar. 31...		1	
Japan:				
Hiogo.....	May 19-June 5...	1	1	
Kanagawa Ken.....	Mar. 24-May 19...	13	7	
Okayama.....	Apr. 29-May 19...	1		
Osaka and Hiogo.....	Mar. 26-Apr. 9...	2	1	
Tokyo Fu.....	Apr. 11-June 5...	12	3	
Yokohama.....	Apr. 15-Apr. 29...		1	

YELLOW FEVER.

Brazil:				
Araraguara.....	Mar. 1-Mar. 31...	4	3	
Bahia.....	Dec. 27.....	3	2	
"	Dec. 29.....	6		Taken off of Nor. bk. Adonia.
Ceara.....	Nov. 1-Nov. 30...		1	
Jaboticabal	Mar. 1-Mar. 31...	35	16	
Para.....	Dec. 12-Jan. 1...		24	
"	Jan. 2-Jan. 15...		22	
"	Jan. 16-Feb. 28...		30	
Ribeirao Bonito.....	Feb. 1-Mar. 31...	99	22	
Rio Clara.....	Mar. 1-Mar. 31...	9	4	
Rio de Janeiro.....	Nov. 21-Dec. 4...	1		
"	Dec. 5-Jan. 1...	8	3	
"	Jan. 1-Jan. 29...	22	17	
"	Jan. 30-May 6...		698	
"	May 6-May 27...		123	
Sao Carlos de Pinhal.....	Feb. 28-Mar. 31...	223	58	Yellow fever reported.
"	May 24.....			Yellow fever reported epidemic.
Santos	Jan. 2-Jan. 8...	1	1	
"	Jan. 23-Jan. 29...	3		
"	Jan. 30-Feb. 28...	21	3	
"	Mar. 1-Mar. 31...	32	13	
"	Feb. 1-Mar. 31...	4	3	
Sao Paulo.....				
Costa Rica:				
Port Limon.....	June 15.....			Yellow fever reported.
Cuba:				
Cienfuegos.....	Dec. 20-Jan. 2...		2	No reports received since hostilities with Spain began.
"	Jan. 3-Jan. 23...		1	Do.
"	Dec. 17-Dec. 30...		6	
"	Dec. 31-Jan. 27...		9	
"	Jan. 28-Feb. 17...		3	
"	Mar. 4-Mar. 31...		4	

Cholera, yellow fever, plague, smallpox, etc.—Continued.

YELLOW FEVER—Continued.

Places.	Date.	Cases.	Deaths.	Remarks.
<i>Cuba—Continued.</i>				
Manzanillo.....	Dec. 1-Dec. 31.....		28	No reports received since hostilities with Spain began.
	Jan. 1-Jan. 31.....		9	
	Feb. 14-Feb. 28.....		3	
Matanzas.....	Dec. 15-Jan. 19.....		4	Do.
	Feb. 9-Feb. 23.....		2	
Regla.....	Dec. 31-Feb. 28.....		1	Do.
	Mar. 1-Mar. 24.....		2	
Sagua la Grande.....	Dec. 18-Jan. 20.....			A few cases of yellow fever, but impossible to obtain statistics. No reports received since hostilities with Spain began.
Santiago de Cuba.....	Dec. 19-Jan. 29.....		6	No reports received since hostilities with Spain began.
<i>Jamaica:</i>				
Kingston.....	Dec. 19-Jan. 1.....	1	1	
	Jan. 2-Jan. 31.....	2	2	
	Feb. 5-Feb. 19.....	2	1	
St. Andrew.....	Dec. 19-Jan. 1.....	1		
	Feb. 27-Mar. 5.....	1	1	
St. Catherine.....	Dec. 19-Jan. 1.....	1		
St. Elizabeth.....	Dec. 19-Jan. 1.....	1	1	
<i>Santo Domingo:</i>				
Santo Domingo.....	May 7-May 14.....	1	1	Yellow fever reported.
San Salvador.....	June 17.....			

PLAGUE.

<i>Arabia:</i>				
Djiddah.....	Mar. 25-Apr. 10.....		29	
Nuslah.....	Mar. 1-Mar. 25.....	1		
<i>China:</i>				
Amoy.....	June 11.....			Plague reported,
Canton.....	Mar. 22-Apr. 5.....	10		
	Nov. 7-Nov. 20.....	2	2	
Hongkong.....	Dec. 18-Jan. 1.....	2	2	
	Jan. 2-Jan. 29.....	6	5	
	Jan. 30-Feb. 26.....	64	56	
	Feb. 27-Apr. 30.....	596	529	
	Apr. 30-May 21.....	455	395	
Swatow.....	Mar. 25.....			Plague reported. Plague reported. On ss. Glenturret, in quarantine.
Macao.....	Apr. 9.....			
Shanghai.....	Apr. 23.....			
<i>Egypt:</i>				
Suez.....	May 5.....			1 case plague on ss. Mahale.
<i>India:</i>				
Bombay.....	Nov. 24-Nov. 30.....		70	
	Dec. 1-Feb. 8.....		4,833	
	Feb. 9-Mar. 1.....		3,436	
	Mar. 2-Mar. 29.....		4,579	
	Mar. 30-May 17.....		2,731	
	May 17-May 24.....		101	
Calcutta.....	Apr. 25-May 4.....	25	12	Plague reported. "Sporadic."
<i>Japan:</i>				
Hio-go.....	May 19-June 5.....	1	1	In quarantine on steamship Peru.
Taiwan, Formosa.....	Dec. 28-Apr. 28.....	505	84	
Formosa Ports (Taipeh-Tainan, and Taiwan.)	Apr. 29-May 19.....	2,223	1,421	
Yokohama.....	Mar. 1-Apr. 11.....	2	1	
Karachi.....	Apr. 6-Apr. 12.....	51	31	
<i>Russia:</i>				
St. Petersburg.....	Mar. 26-Apr. 2.....		1	

SMALLPOX.

<i>Belgium:</i>				
Antwerp.....	May 1-May 7.....	2		
Brussels.....	June 4-June 11.....		1	
Ghent.....	May 7-May 14.....		1	
<i>Bohemia:</i>				
Prague.....	Dec. 12-Jan. 1.....	11		
	Jan. 2-May 14.....	151		
<i>British Columbia:</i>				
Victoria.....	May 9.....	1		

Cholera, yellow fever, plague, smallpox, etc.—Continued.

SMALLPOX—Continued.

Places.	Date.	Cases.	Deaths.	Remarks.
Brazil:				
Ceara.....	Mar. 1-Mar. 31.....		10	
Pernambuco.....	Dec. 1-Dec. 25.....		8	
	Apr. 15-Apr. 23.....		1	
Rio de Janeiro.....	Nov. 21-Dec. 4.....	10		
	Dec. 5-Jan. 1.....	9	1	
	Jan. 1-Apr. 8.....	2	1	
Sao Paulo.....	Feb. 1-Mar. 31.....	40	13	
Sorocaba.....	Dec. 16-Jan. 30.....	32	10	
British Columbia:				
Vancouver.....	June 14.....	9		
Canada:				
Halifax.....	May 14-May 28.....	6		
Mallesonneuve.....	Jan. 26-Feb. 16.....	3		
Montreal.....	Jan. 3-Jan. 12.....	3	0	
	Feb. 11-Feb. 16.....	1		
China:				
Hongkong.....	Nov. 7-Dec. 4.....	6	4	
	Dec. 5-Jan. 1.....	11	8	
	Jan. 2-Apr. 30.....	194	113	
	May 1-May 14.....		4	
Cuba:				
Cardenas.....	Dec. 19-Jan. 22.....		5	
	Mar. 6-Mar. 27.....		8	
Cienfuegos.....	Dec. 20-Jan. 2.....		7	
	Jan. 3-Jan. 23.....		19	
	Feb. 7-Feb. 27.....		35	
	Feb. 28-Apr. 3.....		9	
Habana.....	Dec. 17-Apr. 7.....		154	
Matanzas.....	Jan. 20-Feb. 23.....		8	
Regla.....	Feb. 18-Apr. 7.....		3	
Sagua la Grande.....	Dec. 19-Jan. 29.....	233	29	
	Jan. 30-Feb. 26.....	470	35	
	Feb. 27-Apr. 4.....	437	26	
England:				
Bristol.....	Feb. 6-Feb. 19.....	1		
Leeds.....	Mar. 19-Apr. 9.....	6	4	
Liverpool.....	Jan. 15-Jan. 29.....	3		
	Feb. 1-Apr. 2.....	6		
London.....	Feb. 27-Mar. 26.....	4		
	June 4-June 11.....	1		
Middlesborough.....	Feb. 9.....	90		
Newcastle on Tyne.....	Mar. 19-June 11.....	12	2	
Southampton.....	Jan. 8-Feb. 12.....	2		
South Shields.....	May 7-May 14.....	1		
Sunderland.....	Dec. 18-Jan. 8.....	1		
	Feb. 27-Mar. 26.....	4		
West Hartlepool.....	Jan. 9-Jan. 22.....	5		
Germany:				
Bremen.....	Apr. 23-May 14.....	2		
Hamburg.....	Mar. 6-Mar. 12.....	2		
Gibraltar.....	Dec. 6-Dec. 12.....	1		
	Dec. 27-Apr. 3.....	6		
India:				
Bombay.....	Feb. 9-May 24.....		32	
Calcutta.....	Dec. 19-Dec. 25.....		1	
	Jan. 30-May 21.....		54	
Madras.....	Nov. 27-Dec. 3.....		1	
	Dec. 4-Dec. 31.....		3	
	Jan. 1-Jan. 28.....		6	
	Jan. 29-Feb. 4.....		6	
	Feb. 5-Apr. 22.....		66	
	Apr. 30-May 20.....		12	
Singapore.....	Mar. 1-Mar. 31.....		1	
Italy:				
Messina.....	Dec. 12-Jan. 8.....		5	
	Jan. 30-May 21.....		5	
Japan:				
Aichi Ken.....	Dec. 28-June 5.....	9	1	
Akita Ken.....	Dec. 28-June 5.....	18	4	
Awamori Ken.....	Dec. 28-June 5.....	101	16	
Chiba Ken.....	Dec. 28-Apr. 10.....	9		
Formosa.....	Feb. 4-Mar. 3.....	7	4	
Fukui Ken.....	Dec. 28-Feb. 3.....	1		
Fukuoka Ken.....	Mar. 24-June 5.....	6		
Fukushima Ken.....	Dec. 28-June 5.....	147	37	
Gifu Ken.....	Feb. 4-Feb. 22.....	1		
Gumma Ken.....	Feb. 4-Feb. 22.....	1		
Hiogo.....	Apr. 29-June 5.....	3		

Cholera, yellow fever, plague, smallpox, etc.—Continued.

SMALLPOX—Continued.

Places.	Date.	Cases.	Deaths.	Remarks.
Japan—Continued.				
Hiroshima Ken.....	Jan. 22-Feb. 3...	1	.....
Ishikawa Ken.....	Apr. 29-May 19...	42	.....
Iwate Ken.....	Dec. 28-June 5...	47	10	
Kagoshima Ken.....	Feb. 4-Feb. 22...	1	.....
Kanagawa Ken.....	Dec. 28-Jan. 21...	3	.....
Kioto Fu.....	Apr. 29-May 19...	1	.....
Kochi Ken.....	Dec. 28-Jan. 21...	1	.....
Miyagi Ken.....	Dec. 17-June 5...	98	26	
Miyazaki Ken.....	Jan. 22-Feb. 3...	3	1	
	Apr. 29-June 5...	96	7	
Nagano Ken.....	Feb. 4-Mar. 23...	9	5	
	Apr. 29-May 19...	1	.....
Nagasaki Ken.....	Jan. 22-Mar. 23...	4	1	
	Apr. 29-May 19...	1	.....
Nara.....	Apr. 29-May 19...	1	.....
Niigata Ken.....	Mar. 4-Mar. 23...	4	1	
Okayama Ken.....	Feb. 4-Apr. 10...	3	1	
Osaka Fu.....	Dec. 28-June 5...	4	.....
Oyama Ken.....	Mar. 4-Mar. 23...	1	1	
Saitama Ken.....	Dec. 17-Dec. 27...	1	.....
Shidzuoka Ken.....	Apr. 29-May 19...	2	.....
Shiga Ken.....	May 19-June 5...	1	.....
Tochigo Ken.....	Mar. 24-Apr. 10...	1	.....
Tokyo Fu.....	Dec. 28-Mar. 23...	6	.....
Tokushima Ken.....	Apr. 29-June 5...	3	.....
Yamagata Ken.....	Jan. 22-June 5...	45	9	
Yamaguchi Ken.....	Feb. 4-Apr. 28...	10	1	
Yamanashi Ken.....	Mar. 24-Apr. 28...	5	1	
Yehime Ken.....	Dec. 17-Apr. 10...	59	13	
	Apr. 29-May 19...	3	.....
The Hokkaido.....	Dec. 17-June 5...	509	142	
Mexico:				
Nogales.....	May 13.....	4	.....
Norway:				
Christiania.....	Mar. 20-May 21...	19	2	
Nova Scotia:				
Halifax.....	June 4-June 11...	3	.....	At quarantine hospital.
Netherlands:				
Amsterdam.....	Dec. 12-Dec. 24...	1	.....
Rotterdam.....	Dec. 12-Dec. 31...	3	1	
	Jan. 1-Jan. 29...	1	.....
Russia:				
Moscow.....	Nov. 23-Dec. 4...	1	1	
	Dec. 5-Dec. 11...	1	1	
	Jan. 1-May 14...	63	17	
	May 21-May 28...	4	2	
	June 4-June 11...	.....	1	
Odessa.....	Dec. 5-Jan. 1...	53	9	
	Jan. 2-Jan. 29...	34	7	
	Jan. 30-June 4...	97	18	
St. Petersburg.....	Dec. 4-Dec. 25...	35	13	
	Jan. 9-Jan. 29...	56	19	
	Jan. 30-June 4...	.....	58	
Warsaw.....	Dec. 19-May 23...	136	.....
	June 4-June 11...	.....	8	
Scotland:				
Edinburgh.....	Apr. 16-Apr. 30...	2	.....
Glasgow.....	Dec. 5-Dec. 25...	3	1	
Leith.....	Apr. 3-Apr. 30...	2	1	
Spain:				
Corunna.....	Jan. 1-Feb. 5...	.....	2	
Madrid.....	Dec. 22-Dec. 28...	.....	1	
	Feb. 8-Apr. 6...	.....	3	
Turkey:				
Constantinople.....	Jan. 10-Feb. 6...	.....	53	
	Feb. 28-May 8...	.....	94	
Uruguay:				
Montevideo.....	Dec. 25-Mar. 19...	5	.....
	May 1-May 7...	.....	1	
Venezuela:				
Caracas.....	June 7.....	.....	.....	Smallpox reported.
Puerto Cabello.....	Apr. 2-Apr. 11...	23	6	Smallpox increasing, June 7, 1898.
Valencia.....	Apr. 2-Apr. 11...	34	.....	Do.
Wales:				
Cardiff.....	Dec. 18-Dec. 24...	1	.....

Current quarantine measures.

[Translated in this Bureau from the "Veröffentlichungen des Kaiserlichen Gesundheitsamtes," Berlin, June 8, 1898.]

PLAGUE.

TURKEY.—According to advices dated May 19, the quarantine against arrivals from the coast of the Hedjaz between Yambo and Lith has been suspended. Vessels having on board pilgrims returning North shall repair to the lazarettos of Klazamena, Beirut, or Tripolis in Africa and there submit to such measures as the sanitary authorities think proper.

BULGARIA.—By resolution of the sanitary council, May 18, all India is declared infected from April 1, and all vessels and merchandise which left India on or after April 1 are subject to the measures prescribed February 11 and April 4.

In view of the fact that the greater part of importations to Bulgaria from India arrive by way of England, in bulk, it is resolved that all such importations shall be admitted after they have been disinfected at the expense of their owners.

STRAITS SETTLEMENTS.—By proclamation of the Colonial Government of May 5 the harbor of Calcutta is declared infected. All vessels arriving thence shall be subject to a quarantine for a period of nine days from the date of their departure from Calcutta, or from the occurrence of the last plague case, or until released by permit of the sanitary authority.

SMALLPOX.

DANISH ANTILLES.—According to advices of June 3, arrivals from Valencia (Venezuela) are subject to fifteen days' quarantine on account of smallpox. Quarantine for arrivals from Jamaica is suspended.

CUBA.

Hospital reports of the Juragua Mining Company, Limited, and statement of the rainfall in Cuba during the period 1889 to 1897.

CUBA, June 27, 1898.

SIR: In response to your telegrams of this afternoon, I inclose herewith a press copy of a statement of the rainfall in Cuba furnished by me to the State Department April 15 last, and also a detailed statement of weather observations recorded at our mining village, Firmeza, month by month, for the years 1889 to 1897, both inclusive.

The report will sufficiently explain itself, but I beg to call your attention, first, to the minimum temperature given for the past two years, showing the lowest average point for the month that the thermometer goes during the night; and second, to the phenomenally heavy rainfall in October of last year, being by far greater than any year since our records were kept, and, as a matter of fact, in one day (October 20) we had a fall of 14 inches.

Very respectfully, yours,

JOSIAH MONROE,
Secretary and Treasurer.

The Juragua Iron Company, Limited—Weather observations taken at Firmeza, mining village of the company, located about 16 miles east of the city of Santiago de Cuba, and about 5 miles inland from the Caribbean Sea. It is among the mountains, and about 500 feet above sea level.

Months.	Temperature.					Mean daily temperature.	Rain in inches.	Days sun- shine.	Days cloudy.	Total rainfall for year in inches.
	6 a. m.	9 a. m.	Noon.	3 p. m.	6 p. m.					
1899.										
January.....	67	78	85	81	74	77	.04	29	2	.....
February.....	66	86	93	88	76	82	.60	25	3	.....
March.....	65	84	91	87	75	81	10.22	26	5	.....
April.....	69	85	93	88	78	82	8.86	22	8	.....
May.....	68	85	91	87	77	82	11.90	18	13	.....
June.....	70	85	93	89	80	83	2.90	19	11	.....
July.....	72	84	90	90	81	83	1.35	21	10	.....
August.....	72	84	88	86	81	82	8.40	20	11	.....
September.....	72	81	86	87	78	81	21.78	18	12	.....
October.....	71	80	86	89	76	80	9.38	19	12	.....
November.....	71	82	85	83	77	80	1.01	23	7	.....
December.....	69	78	81	80	74	76	.31	23	8	76.75
1890.										
January.....	70	76	84	80	76	77	2.22	23	8	.....
February.....	67	76	84	82	77	77	.56	24	4	.....
March.....	67	76	83	79	75	76	8.58	21	10	.....
April.....	67	79	82	78	74	76	2.19	26	4	.....
May.....	71	83	83	80	75	78	6.62	22	9	.....
June.....	74	87	87	84	80	82	4.25	25	5	.....
July.....	72	87	87	84	81	82	3.80	23	8	.....
August.....	70	85	89	85	80	82	4.01	24	7	.....
September.....	68	84	90	86	89	81	10.78	22	8	.....
October.....	68	84	90	89	81	83	1.89	27	4	.....
November.....	69	81	87	86	76	80	9.60	22	8	.....
December.....	67	76	82	82	74	76	1.34	26	5	55.84
1891.										
January.....	65	77	84	84	75	77	2.48	27	4	.....
February.....	65	80	87	88	77	79	1.10	25	3	.....
March.....	65	80	87	88	77	79	.81	30	1	.....
April.....	69	80	85	86	78	79	9.10	19	11	.....
May.....	69	82	88	87	79	81	6.43	22	9	.....
June.....	71	83	89	86	80	82	8.85	19	11	.....
July.....	71	85	90	87	81	84	2.30	24	7	.....
August.....	71	86	90	86	81	83	7.15	20	11	.....
September.....	71	86	89	85	80	82	5.15	21	9	.....
October.....	71	83	88	83	78	81	13.94	18	13	.....
November.....	70	83	86	82	78	80	2.61	21	9	.....
December.....	69	79	81	79	72	77	.22	25	6	60.14
1892.										
January.....	66	76	80	76	73	74	3.18	25	6	.....
February.....	62	74	78	76	73	73	1.42	23	6	.....
March.....	68	80	81	78	75	76	.39	25	6	.....
April.....	70	80	82	80	77	78	1.40	23	7	.....
May.....	72	80	82	80	78	79	7.91	19	12	.....
June.....	75	82	84	82	80	81	1.15	23	7	.....
July.....	74	83	86	84	81	82	4.43	24	7	.....
August.....	74	83	85	83	81	81	10.10	25	6	.....
September.....	74	83	85	84	81	81	4.16	19	11	.....
October.....	74	81	84	82	80	80	13.98	20	11	.....
November.....	74	80	83	82	79	79	1.74	24	6	.....
December.....	70	78	80	79	75	76	1.65	25	6	51.51

The Juragua Iron Company, Limited—Weather observations taken at Firmeza.—Continued.

Months.	Temperature.					Mean daily temperature.	Rain in inches.	Days sunshine.	Days cloudy.	Average minimum temperature at night.	Total rainfall for year in inches.
	6 a. m.	9 a. m.	Noon.	3 p. m.	6 p. m.						
1893.											
January.....	69	78	81	79	75	76	.91	25	6	.....	.....
February.....	70	79	82	81	77	78	1.07	23	5	.....	.....
March.....	69	79	82	80	77	78	.86	25	6	.....	.....
April.....	72	81	83	82	78	79	3.56	23	7	.....	.....
May.....	74	80	83	82	78	79	9.92	19	12	.....	.....
June.....	75	83	85	85	80	82	2.38	23	7	.....	.....
July.....	77	84	88	86	84	84	5.16	19	12	.....	.....
August.....	76	83	86	85	81	82	11.57	20	11	.....	.....
September.....	75	82	85	84	80	81	7.23	20	10	.....	.....
October.....	74	81	85	84	80	81	9.94	22	9	.....	.....
November.....	71	78	83	82	79	79	5.43	23	7	.....	.....
December.....	71	78	82	81	77	78	2.50	25	6	.....	60.53
1894.											
January.....	67	77	82	80	77	77	.54	26	5	.....	.....
February.....	68	77	82	80	77	77	.15	22	6	.....	.....
March.....	67	78	82	81	77	77	2.26	23	8	.....	.....
April.....	71	78	83	82	78	78	2.37	23	7	.....	.....
May.....	74	80	84	82	78	79	11.79	18	13	.....	.....
June.....	74	81	87	85	81	82	8.90	21	9	.....	.....
July.....	73	82	87	86	81	82	2.25	25	6	.....	.....
August.....	74	82	88	87	81	82	5.04	24	7	.....	.....
September.....	74	82	87	85	81	82	7.49	19	11	.....	.....
October.....	73	81	84	83	82	81	12.92	22	9	.....	.....
November.....	73	81	85	85	82	81	.60	22	8	.....	.....
December.....	70	77	80	80	77	77	1.93	23	8	.....	56.24
1895.											
January.....	67	78	82	81	77	77	.13	29	2	.....	.....
February.....	68	76	80	79	76	76	.90	14	14	.....	.....
March.....	69	79	83	81	79	78	.38	19	12	.....	.....
April.....	73	79	83	82	80	79	1.71	23	8	.....	.....
May.....	74	81	84	83	81	81	8.15	20	11	.....	.....
June.....	75	84	85	83	81	82	5.78	20	10	.....	.....
July.....	77	84	89	86	84	84	5.92	23	8	.....	.....
August.....	73	83	89	87	84	83	4.45	22	9	.....	.....
September.....	75	83	87	85	81	82	8.30	22	8	.....	.....
October.....	72	83	85	82	79	81	19.20	20	11	.....	.....
November.....	72	77	83	83	81	79	8.14	24	6	.....	.....
December.....	70	76	79	79	77	76	.96	29	2	.....	63.42
1896.											
January.....	69	76	80	79	77	76	2.90	28	3	67	.....
February.....	70	77	81	79	77	77	4.35	25	4	68	.....
March.....	4	77	79	78	78	78	1.62	26	5	70	.....
April.....	81	82	82	82	82	82	.39	24	6	72	.....
May.....	81	82	83	82	82	82	7.54	23	8	72	.....
June.....	80	83	85	84	84	83	.48	27	3	73	.....
July.....	76	85	86	85	85	84	2.20	25	6	.....	.....
August.....	74	86	89	86	82	83	9.65	23	8	72	.....
September.....	74	85	87	85	82	83	17.07	21	9	73	.....
October.....	74	83	86	84	82	82	6.35	27	4	73	.....
November.....	73	83	86	84	82	82	.97	28	2	72	.....
December.....	71	80	83	82	80	79	4.70	28	3	70	58.22
1897.											
January.....	66	78	81	79	78	76	.05	30	1	65	.....
February.....	69	80	84	83	81	79	.00	28	.....	67	.....
March.....	70	83	86	85	83	81	.77	30	1	69	.....
April.....	74	84	86	84	83	82	4.80	21	9	71	.....
May.....	74	82	82	88	83	82	11.05	22	9	72	.....
June.....	75	85	87	86	84	83	6.80	25	5	72	.....
July.....	75	85	87	85	83	83	8.60	24	7	73	.....
August.....	75	86	87	87	84	84	2.75	28	3	72	.....
September.....	75	83	87	86	84	83	10.10	24	6	73	.....
October.....	74	81	84	83	80	80	38.65	15	16	76	.....
November.....	72	81	85	83	80	80	5.70	26	4	70	.....
December.....	71	79	84	82	80	79	1.30	29	2	68	90.57

PHILADELPHIA, PA., June 28, 1898.

SIR: I inclose herewith for your information, or that of any Department of the Government to which it may be of value and to which you may refer it, copy of our hospital reports for the past eight years.

These reports will sufficiently explain themselves, but I would especially call your attention to the yellow fever columns, from which you will note that in the eight years we have had two epidemics of yellow fever, the first and most serious beginning in November, 1890, and continuing a full year, with result of 285 cases, of which 106 died, equal to 37 per cent. The first cases of this epidemic were brought directly from

Puerto Rico by immigrant workmen from Spain who, in the course of transshipment and delay of several days in Puerto Rico, contracted the disease there.

The second epidemic of consequence begun in June, 1895, and continued for seven months, with a total number of cases of 110 and 47 deaths, equal to 43 per cent. This epidemic was general in and about the region of Santiago de Cuba, and arose from the large numbers of unacclimated Spanish soldiers brought into the province about that time, and more directly from their insufficient diet and general unsanitary conditions of camp life.

Very respectfully, yours,

JOSIAH MONROE,
Secretary and Treasurer.

The Juragua Iron Company, Limited—Hospital report.

Month.	Total number on pay roll.	Number treated for disease.	Number died.	Number treated for injury.	Number died.	Total number treated.	Yellow fever— (Included in foregoing total).	
							Cases.	Deaths.
1890.								
January.....	1,150	24	1	25		49		
February.....	1,188	23		16		39		
March.....	1,209	13		20		33		
April.....	1,248	21		30		51		
May.....	1,381	28		24		52		
June.....	1,462	21		36	1	57		
July.....	1,569	33		38		71		
August.....	1,755	44		32		76		
September.....	1,633	24		33		57		
October.....	1,836	29	2	42	10	71		
November.....	1,682	42	2	39		81	2	2
December.....	1,784	69	6	40	1	109	18	6
Total.....		371	11	375	12	776	20	8
Average.....	1,491							
1891.								
January.....	1,455	70	5	30		100	15	5
February.....	1,290	118	10	22		140	27	9
March.....	1,233	103	10	18		121	25	10
April.....	1,205	112	19	5		117	43	19
May.....	1,200	145	13	5		150	36	12
June.....	1,284	159	21	9		168	57	21
July.....	1,216	134	8	15	1	149	35	8
August.....	1,324	82	10	18		100	15	10
September.....	1,347	47	3	24		71	7	2
October.....	1,350	60	3	21		81	5	2
November.....	1,302	59	1	24		83		
December.....	1,184	50		25		75		
Total.....		1,139	103	216	1	1,355	265	98
Average.....	1,283							
1892.								
January.....	1,038	27		24		51		
February.....	1,216	37	2	17		54		
March.....	1,234	25	1	24		49		
April.....	1,188	22	1	20	1	42		
May.....	1,214	42	1	21		63		
June.....	1,171	38	1	22		60		
July.....	1,131	37	1	20		57		
August.....	1,069	38		23		61		
September.....	999	27		14		41		
October.....	1,079	30		6		36		
November.....	1,283	37	1	34		71	2	1
December.....	1,474	38	1	31		69		
Total.....		398	9	256	1	654	2	1
Average.....	1,175							
1893.								
January.....	1,340	22		31		53	1	
February.....	1,293	31		28	1	59	2	
March.....	1,405	53	1	36		89	1	
April.....	1,412	32		38		70		
May.....	1,435	43		27		70	1	
June.....	1,327	45		21		66		
July.....	1,219	29	2	25		54		
August.....	970	20		13		33		
September.....	364	9		6		15		
October.....	318	5	1	3		8		

The Juragua Iron Company, Limited—Hospital report—Continued.

Month.	Total number on pay roll.	Number treated for injury.	Number died.	Number treated for injury.	Number died.	Total number treated.	Yellow fever— (Included in foregoing total).	
							Cases.	Deaths.
November.....	261	5		6		11		
December.....	250	3		5		8		
Total.....		297	4	239	1	536	5	
Average.....	967							
1894.								
January.....	241	6		2		8		
February.....	228	2		6		8		
March.....	217	3		3		6		
April.....	313	2		4		6		
May.....	276	2	1	3		5		
June.....	346	4		6		10		
July.....	425	3		15	1	18		
August.....	741	28	1	18	1	46	4	1
September.....	781	32	6	22		54	7	6
October.....	813	39	4	27		66	10	4
November.....	745	30	3	20		50	5	3
December.....	738	10		15		25		
Total.....		161	15	141	2	302	26	14
Average.....	489							
1895.								
January.....	793	13		16		29		
February.....	923	12		26		38		
March.....	907	17		48		65		
April.....	1,044	21		26		47		
May.....	1,121	25		31	1	56		
June.....	1,205	55		33		88	3	
July.....	1,236	99	16	39		138	45	15
August.....	1,317	115	20	41	2	156	38	18
September.....	1,184	61	11	29		90	18	11
October.....	1,178	28	3	25		53	2	3
November.....	1,152	14		25		39	1	
December.....	995	19	1	21		40		
Total.....		479	51	360	3	839	107	47
Average.....	1,065							
1896.								
January.....	965	17		23	2	40	3	
February.....	875	10		14		24		
March.....	804	9		15	1	24		
April.....	716	13	1	19		32		
May.....	867	9		10		19		
June.....	856	30	1	17		47	2	1
July.....	868	38	2	20	2	58		
August.....	909	63	3	23		86	3	3
September.....	889	50	3	17		67		
October.....	856	53	5	16	1	69	3	3
November.....	806	23	2	12		35	1	
December.....	820	31	3	14	1	45		
Total.....		346	20	200	7	547	12	7
Average.....	853							
1897.								
January.....	875	24		13		42		
February.....	837	30		16		46		
March.....	901	28		12		40		
April.....	936	50	2	18	1	68		
May.....	824	76		8		84	3	1
June.....	787	74	2	10		84		
July.....	783	78	4	6		84	1	1
August.....	794	34	1	6		40	1	
September.....	824	35		9		44		
October.....	740	32		12		44		
November.....	732	26		12		38		
December.....	716	158	1	7		165		
Total.....		645	10	134	1	779	5	2
Average.....	812							
1898.								
January.....	676	113	2	4		117		
February.....	675	85	2	7	1	92		
March.....	644	58	2	13		71		

DENMARK.

Quarantine procedures.

LEGATION OF THE UNITED STATES,
Copenhagen, June 8, 1898.

SIR: I have the honor to report that on the 12th ultimo the Government of the Danish West Indies declared a quarantine of fifteen days against ships arriving from Valencia, Venezuela, owing to the appearance of smallpox at that port, and that on the same date it revoked the quarantine established in October last against ships arriving from Jamaica.

I have the honor to be, sir, your obedient servant,

LAURITS S. SWENSON.

Hon. SECRETARY OF STATE.

JAPAN.

Report of infectious diseases.

YOKOHAMA, JAPAN, *June 6, 1898.*

SIR: I have the honor to forward herewith my regular report of infectious diseases in Japan for period May 20 to June 5.

With regard to the sanitary condition of the Empire it may be said that it is generally satisfactory. Almost no cases of choleraic disease are returned, dysentery can scarcely be said to be increasing, and, with the exception of the ever-present danger of the importation of plague from Hongkong or Formosa, the prospects for the summer seem good.

You will observe that the reported number of cases of plague in Formosa is very much less than as shown in my last summary. I am, however, confident that statistics from Formosa are exceedingly inaccurate, erring invariably in a favorable direction.

The steamship *Peru*, of P. M. S. S. line, had a case of plague among her Chinese steerage passengers on arrival at Kobe. The patient was immediately removed to the quarantine hospital, where he died the same night, and the ship served a quarantine practically of nine days' duration.

I am, sir, very respectfully, your obedient servant,

STUART ELDRIDGE, M. D.,
Sanitary Inspector, U. S. M. H. S.

Report of infectious disease in Japan from May 19 to June 5, 1898.

Locality.	Plague.		Cholera.		Dysentery.		Smallpox.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Kioto Fu.....					2			
Osaka Fu.....					13	1	1	
Tokyo Fu.....			2	1	8		1	
Aichi Ken.....					8		1	
Akita Ken.....							1	
Awamori Ken.....					2	1	26	4
Chiba Ken.....								
Fukui Ken.....					2			
Fukuoka Ken.....					2		2	
Fukushima Ken.....							6	2
Gifu Ken.....					3	1		
Gumma Ken.....					2			
Hiogo Ken.....	(a) 1	1	1	1			2	
Hiroshima Ken.....								
Ibaraki Ken.....					1	1		
Ishikawa Ken.....							5	1
Iwate Ken.....								
Kagawa Ken.....					3			
Kagoshima Ken.....					8	2		
Kanagawa Ken.....					10	7		
Kochi Ken.....								
Kumamoto Ken.....								
Miyagi Ken.....					10	2		
Miyazaki Ken.....					1		2	
Miye Ken.....								
Nagano Ken.....								
Nagasaki Ken.....								
Nara Ken.....								
Niigata Ken.....					1			
Oita Ken.....					6	1		
Okayama Ken.....								
Okinawa Ken.....								
Saga Ken.....					5	1		
Saitama Ken.....					11			
Shidzuoka Ken.....							1	
Shiga Ken.....					1	1		
Shimane Ken.....					3	2		
Tochigi Ken.....							1	
Tokushima Ken.....								
Tottori Ken.....					1	1		
Toyama Ken.....					11	3		
Wakayama Ken.....							7	
Yamagata Ken.....					3			
Yamaguchi Ken.....					10			
Yamanashi Ken.....					1			
Yehime Ken.....					2		32	9
The Hokkaido.....								
Taiwan (Formosa).....	144	84						
Total.....	145	85	3	2	130	24	88	16

a Case in quarantine from steamship Peru.

TURKEY.

Report on the supposed case of plague in Smyrna.

[Report No. 194.]

CONSTANTINOPLE, June 15, 1898.

The sanitary news from Smyrna concerning the suspected plague case which occurred at the lazaretto of Clazomene is not as appalling as we could have expected. On the 9th instant, a telegram announced that the parotid bubo was less swollen, as well as the maxillary ganglions, though they were sensitive. The inguinal bubo was less swollen and not sensitive. In spite of the amelioration of these symptoms, the patient was in a worse condition. She was prostrated, her pulse was thready, and the tongue dry. The inspector-general of the sanitary service, Dr. Cozzonis, who had been ordered to go to Smyrna, wired on the 10th instant that on his visiting the patient the bubos had nearly disappeared. She had light fever (37.5 C.), 92 pulsations, tongue red, dry, and large, skin yellowish, dry, not spotted, diarrhea dating forty-two days previously. The patient had incontinence of urine, and as a consequence it is impossible to have it analyzed. Her liver was slightly enlarged, at the same time she was suffering from chronic bronchitis.

The above-mentioned sanitary inspector made the diagnosis of chronic gastroenteric catarrh. Two days after, on the 13th, the patient died. Dr. Nicol, one of the late Pasteur's scholars, has made a microscopic examination, in consequence of which we received the following telegram: "*Examen microscopique bacteriologique negatif confirme mon diagnostic clinique.* (Signed) COZZONIS." As a consequence, it was ordered to give pratique to the pilgrims after they have undergone five days' quarantine. According to a report written by the sanitary physician of Smyrna, dated the 8th instant, the condition of the patient, in spite of her old age (she was 85 years old), was rather satisfactory; intelligence was clear, the evacuations were blackish, and the existence of the parotid bubo dated only three days previously and it was very sensitive. The inguinal bubo was not larger than a small almond. It is stated she was suffering since the Arafat day—that is to say, the 2d day of Bayram.

It is to be hoped that the above-mentioned case was not a plague case. We must agree with the opinion of the sanitary physicians who have examined the patient as well as the bacteriological examinations of Dr. Nicol. But the existence of the bubos on a pilgrim coming from Djiddah, where several plague cases and plague deaths occurred, obliges me not to be very sure that it was not a light case of plague. According to the official statement, the last plague case occurred in Djiddah the 16th of May, but, according to the Russian consul of the latter town, plague cases were occurring many days after that date.

I must not omit to state that I have seen many plague cases of which many (nearly 90 per cent) proved fatal during the epidemics of plague in Mesopotamia in 1875 and 1876. I saw there some plague cases, the symptoms of which were very slight enlargement of one of the lymphatic ganglions with a very light fever or without any fever at all.

Complaints are made to the Ottoman Government that many pilgrims (several hundred) are thronged in Yambo, there awaiting the arrival of steamships in order to embark. Yambo is a seashore city where there is no water to drink. It is easy to fancy the sanitary condition of the poor pilgrims.

In Constantinople public health is rather good. From the 7th to the

12th of June 173 deaths have been registered. Of these 1 was from scarlet fever, 5 from measles, 4 from diphtheria, 1 from smallpox, and 5 from typhoid fever.

SPIRIDION C. ZAVITZIANO,
United States Sanitary Commissioner.

STATISTICAL REPORTS.

AUSTRALIA—*New South Wales—Sydney.*—Month of April, 1898. Estimated population, 417,250. Total number of deaths, 434, including diphtheria, 12; enteric fever, 10; measles, 3, and scarlet fever, 3.

BERMUDA.—Two weeks ended June 17, 1898. Estimated population, 15,013. Total number of deaths, 1.

CHILE—*Antofagasta.*—Month of May, 1898. Estimated population, 14,000. Total number of deaths, 46, including 2 from phthisis pulmonalis.

FRANCE—*Rouen.*—Month of May, 1898. Estimated population, 112,657. Total number of deaths, 250, including enteric fever, 1; measles, 1; whooping cough, 1, and 53 from phthisis pulmonalis.

GREAT BRITAIN—*England and Wales.*—The deaths registered in 33 great towns in England and Wales during the week ended June 18 correspond to an annual rate of 14.7 a thousand of the aggregate population, which is estimated at 11,218,378. The highest rate was recorded in New Castle on Tyne, viz, 22.2, and the lowest in Cardiff, viz, 8.5.

London.—One thousand one hundred and ninety-three deaths were registered during the week, including measles, 50; scarlet fever, 10; diphtheria, 26; whooping cough, 44; enteric fever, 4, and diarrhea and dysentery, 12. The deaths from all causes correspond to an annual rate of 13.8 a thousand. In greater London 1,550 deaths were registered, corresponding to an annual rate of 12.6 a thousand of the population. In the "outer ring" the deaths included 11 from measles, 10 from diphtheria, 3 from scarlet fever, and 11 from whooping cough.

Ireland.—The average annual death rate represented by the deaths registered during the week ended June 18 in the 23 principal town districts of Ireland was 19.6 a thousand of the population. The lowest rate was recorded in Portadown, viz, 0.0, and the highest in Newtownards, viz, 45.4 a thousand. In Dublin and suburbs 147 deaths were registered, including enteric fever, 4, and whooping cough, 1.

Scotland.—The deaths registered in 8 principal towns during the week ended June 18 correspond to an annual rate of 20.2 a thousand of the population, which is estimated at 1,568,536. The lowest mortality was recorded in Paisley, viz, 17.2, and the highest in Perth, viz, 27.2 a thousand. The aggregate number of deaths registered from all causes was 609, including measles, 32; scarlet fever, 8, and whooping cough, 22.

MORTALITY TABLE, FOREIGN CITIES.

Cities.	Week ended.	Estimated population.	Total deaths from all causes.	Deaths from—								
				Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
Amapala	May 21	15,000	0									
Do	May 28	15,000	0									
Do	June 4	15,000	0									
Amsterdam	June 18	507,647	153					2			4	4
Antofagasta	May 31	14,000	14									
Belize	June 24	13,000	2									
Berlin	June 4	1,728,201	505					2	2	9	2	
Bluefields	June 18	3,018	1									
Bombay	May 21	821,764	a 589									
Brussels	June 11	531,024	179			1		4			2	2
Calcutta	May 21	681,560	398	17		1					1	
Callao	June 5	25,000	32									
Catania	June 16	120,000	63					1				2
Chemnitz	June 11	172,840	79							1	3	5
Cologne	do.	345,377	150									3
Colon	June 15	8,000	0									
Do	June 22	8,000	2									
Copenhagen	June 11	354,000	145					1	1			6
Crefeld	June 18	110,000	37						1			
Demerara	May 7	86,250	38									
Do	May 14	86,250	47									
Do	May 21	86,250	38									
Do	May 28	86,250	48									
Flushing	June 18	17,397	4									
Frankfort on the Main	do.	245,000	77									
Ghent	do.	161,125	53							1		
Girgenti	June 11	24,428	11									
Gothenburg	do.	119,754	34						1		1	
Guayaquil	June 3	50,000	60									
Halifax	June 25	38,700	18									
Hamilton, Bermuda	June 14	16,000	0									
Do	June 21	16,000	1									
Hamburg	June 18	661,015	226							1	11	2
Havre	do.	119,470	45					1				
Hongkong	May 7	261,258	b 214			4						
Do	May 14	261,258	c 222									
Königsberg	June 18	179,686					1					
Leeds	do.	416,618	140						2	6	6	3
Leghorn	June 12	104,372	40							2		
Leipzig	June 11	422,071	151					2	1	1	3	
Liege	do.	166,110	44					1			1	1
Do	June 18	166,110	40								1	
Madras	May 20	452,518	391		1						1	
Mannheim	June 4	108,585	37								1	
Do	June 11	108,585	38						1			
Maracaibo	do.	50,000	10									
Matamoras	June 17	16,304	8									
Mayence	June 18	76,984	21						1			
Messina	do.	107,000	31									
Montevideo	May 7	215,061	57		1		2			1		
Do	May 14	215,061	44									
Moscow	June 11	1,000,000	575			1	1	4	7	10	14	6
Munich	June 4	430,000	195						1	2		1
Nuremberg	do.	189,720	66							1		
Odessa	June 11	383,000	140							1	1	1
Osaka and Hiogo	May 2	202,912	101					3				
Palermo	June 11	300,000	157						1			
Plymouth	June 18	99,136	33								3	
Prague	June 11	198,320	133					2	2		5	
Puerto Cortes	June 22	2,000	0									
Quebec	June 25	72,000									2	
Rhélms	May 27	108,943	42					1			5	
Do	June 11	108,943	47								12	1
Rio de Janeiro	May 20	750,000	342	33			2					
Rotterdam	June 18	301,816	113					1			3	
St. Georges	May 28	2,150	1									
Do	June 4	2,150	0									
St. Johns	May 28	16,679	16									
Do	June 4	16,679	13									
Do	June 11	16,679	12									
Do	June 18	16,679	9									

a Plague, 84 deaths. b Plague, 131. c Plague, 136.

MORTALITY TABLE, FOREIGN CITIES—Continued.

Cities.	Week ended.	Estimated population.	Total deaths from all causes.	Deaths from—							
				Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.
St. Stephens	June 25.....	3,000	1	.....	.....	.....	.....	.....	.....	.....	.....
St. Thomas.....	June 10.....	12,019	11	.....	.....	.....	.....	.....	.....	.....	.....
Schiedam.....	June 18.....	260,024	9	.....	.....	.....	.....	.....	.....	.....	.....
Southampton.....	June 11.....	100,886	29	.....	.....	.....	.....	.....	.....	.....	.....
Stuttgart.....	June 16.....	162,934	61	.....	.....	.....	.....	.....	.....	.....	.....
Tegucigalpa.....	June 10.....	12,000	4	.....	.....	.....	.....	.....	.....	.....	.....
Trapani.....	June 15.....	45,095	12	.....	.....	.....	.....	.....	.....	.....	.....
Trieste.....	June 11.....	165,000	74	.....	.....	.....	.....	.....	.....	.....	.....
Tuxpan.....	June 4.....	10,280	5	.....	.....	.....	.....	.....	.....	.....	.....
Venice.....	do.....	168,958	63	.....	.....	.....	.....	.....	.....	.....	.....
Vera Cruz.....	June 23.....	30,000	30	.....	.....	.....	.....	.....	.....	.....	.....
Vienna.....	June 4.....	1,590,295	637	.....	.....	.....	.....	.....	.....	.....	.....
Warsaw.....	June 11.....	601,408	210	.....	.....	.....	.....	.....	.....	.....	.....
Zurich.....	do.....	158,968	42	.....	.....	.....	.....	.....	.....	.....	.....

By authority of the Secretary of the Treasury :

WALTER WYMAN,
Supervising Surgeon-General U. S. Marine-Hospital Service.